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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/12/2001

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Ralph A. Dowell of DOWELL & DOWELL P.C.  
2111 Eisenhower Ave.  
Suite 406  
Alexandria, VA 22314

EXAMINER

DUONG, DUC T

ART UNIT

PAPER NUMBER

2663

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

CK

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/976,213	PARRUCK ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Duc T. Duong	2663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 October 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 23,24 and 45-59 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 23,24 and 55-59 is/are allowed.
- 6) ☒ Claim(s) 45,46,50,53 and 54 is/are rejected.
- 7) ☒ Claim(s) 47-49,51 and 52 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>10/12/01</u> .  | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 45, 46, 50, 53, and 54 are rejected under 35 U.S.C. 102(b) as being anticipated by Dai (US Patent 5,781,549).

Regarding to claims 45, and 54, Dai discloses a multi-service segmentation and reassembly (MS-SAR) integrated circuit 200 employing a plurality of logical input ports (fig. 3 col. 6 lines 16-24), the MS-SAR integrated circuit comprising bus interface circuitry (fig. 3 col. 6 lines 1-4; the port interface of packet processing units 200 read on the bus interface); and a segmentation engine 400 that receives a plurality of flows (data packets) via the bus interface circuitry (fig. 3 col. 6 lines 4-9), each of the plurality of flows comprising a plurality of packets, the segmentation engine segmenting the packets of the flows on a per logical input port basis such that at any one time at most substantially one packet is being segmented for each of the plurality of logical input ports, the segmenting of a packet resulting in a plurality of segments (fig. 4-5 col. 7 lines 27-45; noted the segmentation engine 400 segments the receive data packets into a plurality of 60-bit data unit such that at any one time at most one 60-bit data unit carrying packet data or packet routing information include one source port number).

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Regarding to claim 46, Dai discloses the segmentation engine receives a packet as a plurality of bursts (well known in the art), and wherein the segmentation engine accumulates several bursts to form a segment (fig. 4 col. 6 lines 44-50).

Regarding to claim 50, Dai discloses the segmentation engine maintains at most one segmentation context (cell type field) per packet being segmented (fig. 5 col. 7 lines 46-55).

Regarding to claim 53, Dai discloses the segmentation engine also receives a flow of cells via the bus interface circuitry, the segmentation engine segmenting the cells into segments (fig. 3 col. 6 lines 1-4; noted data packet is interpreted as cell data)..

#### ***Allowable Subject Matter***

3. Claims 47-49, 51, and 52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 23, 24, and 55-59 are allowed.

#### ***Conclusion***


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-F (9:00 AM-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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DD

  
RICKY NGO  
PRIMARY EXAMINER  
9/19/05